

SYNTHO-SUBSEA™LV

LOW VISCOSITY, SELF LEVELING, UNDERWATER EPOXY MASTIC SEALANT SYSTEM



Description

Syntho-Subsea™LV Epoxy is a unique blend of liquid epoxy, polymer, and aliphatic polyamine curing agents that is able to displace water from wet surfaces in order to make a permanent bond. The formulation is solvent-free to ensure safety and maximum technical performance. Kevlar® fibers are incorporated for reinforcement and viscosity management to achieve high-application rates – even subsea. Provides permanent protection under the most adverse conditions, the formula is uniquely field-friendly and uses advanced, low-toxicity ingredients in a high-build brushable/rollable product. This versatile epoxy system can achieve high-performance characteristics, excellent adhesion, resistance to high pressures, resistance to high and low temperature extremes, as well as outstanding resistance to petroleum products and chemicals. This product can also be used for aboveground and belowground applications. Syntho-Subsea™LV Epoxy can be shipped non-regulated by USDOT, IATA, and IMO.

Mechanical Properties

Test	Method	Result
Tensile Strength	ASTM D3039	6,000 psi (413.68 bar)
Compression Strength	ASTM D695	7,380 psi (508.83 bar)
Flexural Strength	ASTM D790	4,550 psi (313.71 bar)
Flexural Modulus	ASTM D790	142,188 psi (9803.51 bar)
Lap Shear Strength	ASTM D3163	1,782 psi (122.86 bar)
Abrasion Resistance	CS17 wheels with 1,000 gram weights	34.0 mg/1,000 cycles

Item #	Description
SUBLV_040Z	4 oz (197g) Bi-Pack
SUBLV_080Z	8 oz (394g) Bi-Pack
SUBLV_160Z	16 oz (787g) Bi-Pack
SUBLV2QT	2qt (1.892l) Kit contains 1qt A+1qt B
SUBLV2G	2 gal (7.570l) Kit contains 1gal A+1gal B
SUBLV10G	10 gal (37.854l) Kit contains 5gal A+5gal B

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Typical Applications

- Anticorrosive coating
 - Splash zone/ Subsea applications
- Encapsulating coating
- Chemical resistant coating
- Excellent abrasive resistance
- Pipeline repairs
- Concrete repairs
- Pipeline anomaly reinforcement and remediation

Physical Properties

VOCs: None

Color: Resin - White, Curing Agent - Green

Pot Life: 20 Minutes at 77°F (25°C)

Cure Time: 24 Hours at 77°F (25°C)

Service Temperature:

Dry: -50° to 275°F (-45° to 135°C)

Wet: -50° to 160°F (-45° to 71°C)

Mixing Ratio: 1:1 by volume

Flash Point: Over 200°F (93°C)

Solids Content: 100%

Spreading Rate/Gallon:

1,604 mil/sq. ft.

53.5 sq. ft./30 mils

Shelf Life: 24 Months with recommended storage conditions

